

# Parking Restoration Consulting



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Parking structures are exposed to harsh conditions due to moisture and environmental extremes such as freezing temperatures, heavy wind, and seismic forces. Walter P Moore assists owners in addressing ongoing maintenance and repair needs to preserve asset value, functionality, and public safety. Our expertise in garage design, repair, and maintenance comes from a long history of parking structure projects across North America. We address structural, waterproofing, and other performance deficiencies, as well as the mechanisms of parking garage deterioration. We also develop facility-specific maintenance manuals and Capital Asset Management Plans.

## Restoration Services for All Structural Systems

Our experts address restoration challenges for a variety of structural systems. Post-tensioned (PT) tendon repairs require specialized expertise, and our consultants are certified in the evaluation of PT concrete systems. We are highly experienced in the development of repair documents and maintenance programs for such structures.

- Cast-in-place post-tensioned concrete systems
- Conventionally reinforced concrete
- Hybrid structural systems
- Precast structures
- Steel-framed structures

## Solutions for All Weather Conditions

Parking structures are exposed to extreme temperatures, snowplows, corrosive deicing products, and salts in coastal regions. Adverse weather conditions can cause premature deterioration in structures, thus compromising their structural and operational integrity. Walter P Moore helps owners correct problems by performing the following services:

- Programs for evaluating adverse conditions
- Repair priority lists/address critical issues first
- Programs to implement necessary repairs
- Maintenance procedures to extend service life

To restore parking facilities, we follow a project delivery system that combines an understanding of deterioration mechanisms with our restoration design expertise.



## Sustainability

Our restoration/rehabilitation designs incorporate sustainable alternatives such as:

- Traffic coating membranes/sealants with low volatile organic compounds (VOCs)
- Sustainable repair solutions to protect structures from corrosion
- Supplemental cementitious repair materials that enhance long-term durability

## Capital Asset Management Plans

If you manage assets, you need a Capital Asset Management Plan (CAMP). A CAMP creates a higher level of predictability of expenses over the useful life of your assets and ensures that you adequately fund future expenditures. Walter P Moore designs CAMPs to help managers and operators optimize their bottom line, as well as proactively manage risks. We use a life cycle cost analysis to provide an actionable CAMP for long-term asset care. Our holistic approach provides decision makers with the knowledge to select repair and maintenance strategies that meet both short- and long-term horizons.



## Who We Are

Walter P Moore is an international company of engineers, architects, innovators, and creative people who solve some of the world's most complex structural and infrastructure challenges. Providing structural, diagnostics, civil, traffic, parking, transportation, enclosure, and construction engineering services, we design solutions that are cost- and resource-efficient, forward-thinking, and help support and shape communities worldwide. Founded in 1931 and headquartered in Houston, Texas, Walter P Moore's 600+ professionals work across 20 U.S. offices and five international locations.